

## IN THE CLAIMS:

1. (Currently Amended) A method for providing a cell attached to a patch clamp electrode and having a high resistance (~~Giga-Ohm~~) electrical seal between an area of the cell membrane and the electrode, ~~which includes the steps of~~ comprising:

- i) providing a suspension of cells in a liquid;
- ii) ~~causing the formation of~~ forming a layer of cells at the an interface between the air and the liquid in which the cells are ~~suspended~~; suspended; and
- iii) bringing the patch clamp electrode into contact with the interface by moving one or both of the electrode and the interface respectively ~~together~~; together.

2. (Currently Amended) A method ~~according to claim 1~~ for providing a cell attached to ~~the~~ a tip of a patch clamp pipette and having a high resistance (~~Giga-Ohm~~) electrical seal between an area of the cell membrane and the tip, ~~which includes the steps of~~ comprising:

- i) providing a capillary tube containing a suspension of cells in a liquid;
- ii) ~~causing the formation of~~ forming a layer of cells at one end of the capillary tube at the an interface between the air and the liquid in which the cells are suspended;
- iii) bringing the tip of the patch clamp pipette into contact with the interface by moving one or both of the pipette and the tube respectively together along a common axis of movement;
- iv) contacting the tip with a cell in the cell layer at or near the interface; and
- v) ~~causing attachment of~~ attaching the cell to the tip.

3. (Currently Amended) ~~A method~~ The method according to claim 1 or 2, ~~in which~~ wherein the liquid in which the cells are suspended is an extracellular physiological solution.

4. (Currently Amended) ~~A method~~ The method according to claim 1 or 2, ~~in which~~ wherein the layer of cells is several cells deep and loosely packed.

5. (Currently Amended) ~~A method~~ The method according to claim 2 ~~in which~~ wherein the layer of cells is formed by mounting the capillary tube in an essentially upright

orientation and allowing the suspended cells to sediment to the downward end of the tube to collect ~~there~~ substantially in a layer.

6. (Currently Amended) ~~A method~~ The method according to claim 2 ~~in which~~ wherein the capillary tube is mounted essentially upright with the interface at a lower open end of the capillary tube and the pipette is mounted essentially upright with the tip upwardly pointing.

7. (Currently Amended) ~~A method~~ The method according to claim 2 ~~in which~~ wherein the capillary tube and pipette are concentrically mounted with the capillary tube in a fixed position and the pipette movable along the common axis.

8. (Currently Amended) ~~A method~~ The method according to claim 2 ~~in which~~ wherein the capillary tube and pipette are concentrically mounted with the pipette in a fixed position and the capillary tube movable along the common axis.

9. (Currently Amended) ~~A method~~ The method according to claim 2 wherein gentle suction is applied to the pipette during contact with the interface and during the step of contacting the tip with a cell.

10. (Previously Presented) A method according to claim 2, in which contact between the pipette tip and the air/liquid interface and/or subsequent movement of the pipette tip into the liquid is detected by monitoring pipette capacitance.

11. (Currently Amended) A method according to claim 2, in which if no cell is contacted at or near the interface as at or within a predetermined time after contact between the pipette and the interface, the pipette is withdrawn from the interface and ~~then~~ moved back to the interface to repeat the attempt to contact a cell.

12-18. Canceled.

19. (New) A method for providing a cell attached to a patch clamp electrode, comprising:

providing a suspension of cells in a liquid;

forming a layer of cells at an interface between the liquid and a surrounding gaseous environment; and

moving one or both of the electrode and said interface together along a common axis;

bringing the patch clamp electrode into contact with the interface by said movement along said common axis; and

forming a high resistance electrical seal between an area of cell contained in said cell layer and the electrode through said contact.

20. (New) The method of claim 19 wherein said interface is formed in a capillary tube.